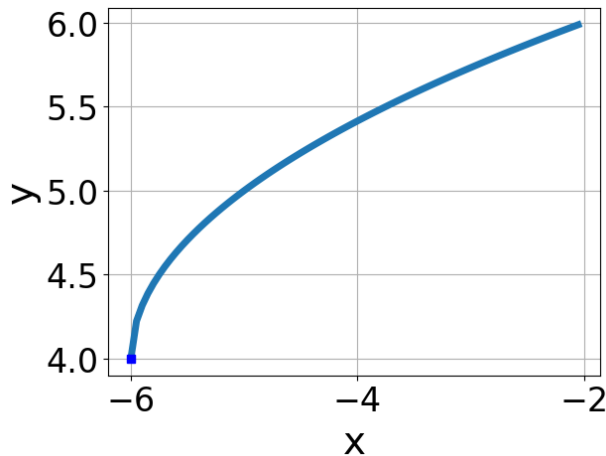


1. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt{x+6} + 4$
- B. $f(x) = -\sqrt{x-6} + 4$
- C. $f(x) = -\sqrt{x+6} + 4$
- D. $f(x) = \sqrt{x-6} + 4$
- E. None of the above

-
2. What is the domain of the function below?

$$f(x) = \sqrt[7]{-4x+9}$$

- A. The domain is $(-\infty, a]$, where $a \in [1.3, 3.6]$
- B. The domain is $(-\infty, a]$, where $a \in [0, 1.7]$
- C. The domain is $[a, \infty)$, where $a \in [-0.6, 1.3]$
- D. The domain is $[a, \infty)$, where $a \in [2.2, 2.4]$
- E. $(-\infty, \infty)$

-
3. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-3x+9} - \sqrt{4x-7} = 0$$

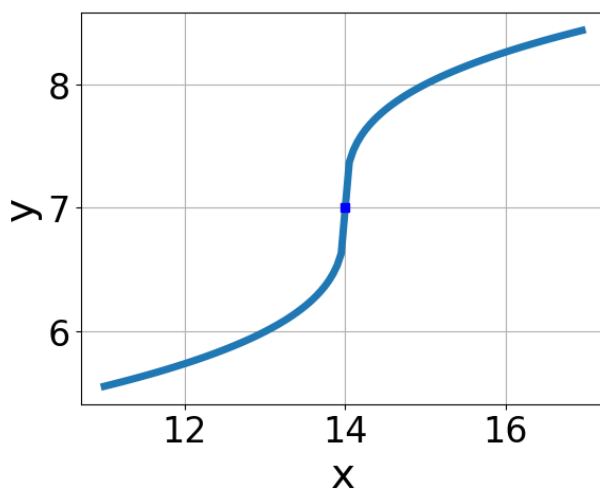
- A. $x_1 \in [1.78, 3.14]$ and $x_2 \in [0, 10]$
 - B. All solutions lead to invalid or complex values in the equation.
 - C. $x \in [-0.11, 0.57]$
 - D. $x \in [1.78, 3.14]$
 - E. $x_1 \in [0.34, 2.25]$ and $x_2 \in [0, 10]$
-

4. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-5x + 9} - \sqrt{5x - 9} = 0$$

- A. All solutions lead to invalid or complex values in the equation.
 - B. $x \in [1, 4]$
 - C. $x \in [-0.9, 1.1]$
 - D. $x_1 \in [1, 4]$ and $x_2 \in [-2.2, 4.8]$
 - E. $x_1 \in [1, 4]$ and $x_2 \in [-2.2, 4.8]$
-

5. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt{x - 14} + 7$
- B. $f(x) = \sqrt{x - 14} + 7$

C. $f(x) = -\sqrt{x+14} + 7$

D. $f(x) = \sqrt{x+14} + 7$

E. None of the above

-
6. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{45x^2 + 42} - \sqrt{-89x} = 0$$

A. $x \in [-0.91, -0.66]$

B. All solutions lead to invalid or complex values in the equation.

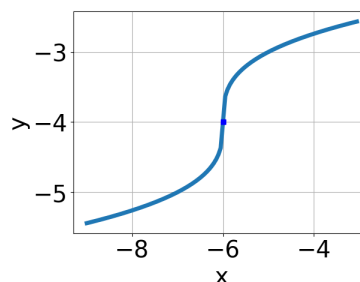
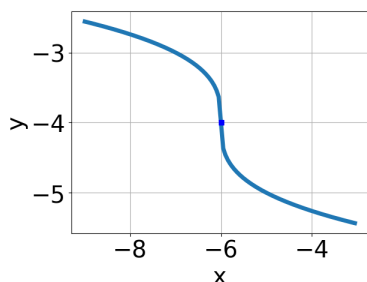
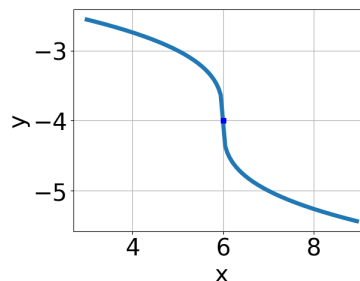
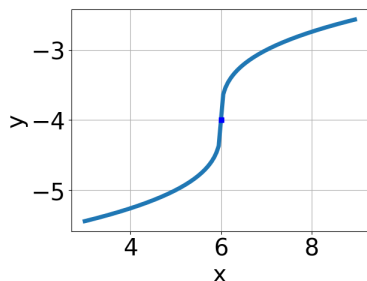
C. $x_1 \in [-1.81, -0.85]$ and $x_2 \in [-0.78, 0.22]$

D. $x_1 \in [-0.13, 2.15]$ and $x_2 \in [0.2, 4.2]$

E. $x \in [-1.81, -0.85]$

-
7. Choose the graph of the equation below.

$$f(x) = -\sqrt[3]{x-6} - 4$$



E. None of the above.

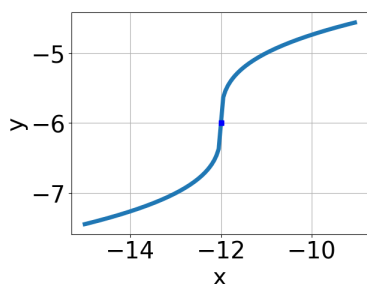
8. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-36x^2 - 56} - \sqrt{-95x} = 0$$

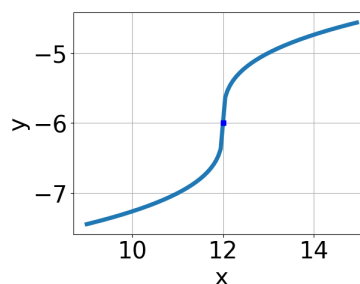
- A. $x_1 \in [0.79, 1.17]$ and $x_2 \in [1.75, 2.75]$
- B. $x_1 \in [-1.03, -0.47]$ and $x_2 \in [-4.75, 0.25]$
- C. All solutions lead to invalid or complex values in the equation.
- D. $x \in [1.45, 2.74]$
- E. $x \in [0.79, 1.17]$

9. Choose the graph of the equation below.

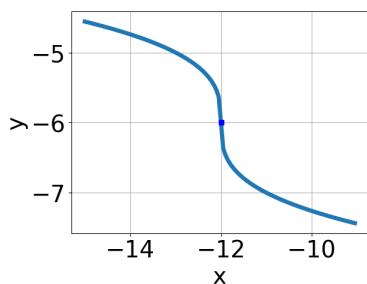
$$f(x) = -\sqrt[3]{x + 12} - 6$$



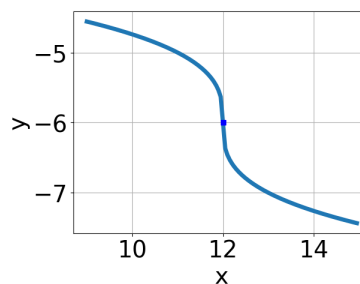
A.



C.



B.



D.

- E. None of the above.

10. What is the domain of the function below?

$$f(x) = \sqrt[4]{8x - 3}$$

- A. $(-\infty, a]$, where $a \in [1.67, 6.67]$
 - B. $[a, \infty)$, where $a \in [-2.62, 2.38]$
 - C. $[a, \infty)$, where $a \in [1.67, 4.67]$
 - D. $(-\infty, \infty)$
 - E. $(-\infty, a]$, where $a \in [-0.62, 2.38]$
-